



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/663,858

09/17/2003

Oded Shmueli

24997

2855

67801

7590

03/17/2009

MARTIN D. MOYNIHAN d/b/a PRTSI, INC.

P.O. BOX 16446

ARLINGTON, VA 22215

EXAMINER

WINTER, JOHN M

ART UNIT

PAPER NUMBER

3685

MAIL DATE

DELIVERY MODE

03/17/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/663,858	<b>Applicant(s)</b> SHMUELI ET AL.	
	<b>Examiner</b> JOHN M. WINTER	<b>Art Unit</b> 3685	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 21 January 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) See Continuation Sheet is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) See Continuation Sheet is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

Continuation of Disposition of Claims: Claims pending in the application are 1-5, 24, 32, 34, 45, 48, 60, 81, 92, 100, 123, 138, 146, 158, 167, 168, 169, 199, 2.15, 225, 235, 251, 266, 276, 285, 301 and 337 .

Continuation of Disposition of Claims: Claims rejected are 1-5, 24, 32, 34, 45, 48, 60, 81, 92, 100, 123, 138, 146, 158, 167, 168, 169, 199, 2.15, 225, 235, 251, 266, 276, 285, 301 and 337 .

## **DETAILED ACTION**

### ***Acknowledgements***

1. The Applicants amendment filed on December 1, 2008 is hereby acknowledged, 1-5, 24, 32, 34, 45, 48, 60, 81, 92, 100, 123, 138, 146, 158, 167, 168, 169, 199, 2.15, 225, 235, 251, 266, 276, 285, 301 and 337 remain pending.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 1, 2008 has been entered.

### ***Response to Arguments***

3. The Applicants arguments filed on December 1, 2008 have been fully considered.  
  
Initially, the Examiner would like to point out that the language that Applicant considers lacking from the prior art references is directed towards is intended use (e.g. “configured for: defining respective party's goal program in respect of said outcome ; for associating etc...” ) and it has been held that the manner in which a claimed apparatus is intended to be used does not distinguish the claimed apparatus from the prior art- if the prior art has the capability to so perform (MPEP 2114 and *Ex parte Masham*, 2 USPQ2d 1647 (1987)). Similarly, while features of an apparatus may be recited either structurally or functionally, claims directed to an apparatus must be distinguished from the prior art in

Art Unit: 3685

terms of structure rather than function alone (MPEP 2214; *In re Swineheart*, 169 USPQ 226; *In re Schreiber*, 44 USPQ2d 1429 (Fed. Cir. 1997)). Therefore, as Burchetta et al. (US Patent 6,330,551) in view of Crawford et al. (US Patent 6,502,113) teaches Applicant's claimed "party goal program, an output unit and a response receiver" sufficiently in terms of art.

The Examiner suggest incorporation of "means for" language in order to give patentable merit to descriptive language.

#### ***Claim Rejections - 35 USC § 101***

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1-5, 24, 32, 34, 45, 48, 60, 81, 92, 100, 123, 138, 146, 158, 167, 168, 169, 199, 2.15, 225, 235, 251, 266, 276, 285, 301 and 337 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These claims are directed towards a "platform" because it is unclear what statutory class the Examiner submits that the claims are directed towards non-statutory subject matter, for purposes of examination these claims will be considered "apparatus" type claims..

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 3685

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-5, 24, 32, 34, 45, 48, 60, 81, 92, 100, 123, 138, 146, 158, 167, 168, 169, 199, 2.15, 225, 235, 251, 266, 276, 285, 301 and 337 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burchetta et al. (US Patent 6,330,551) in view of Crawford et al. (US Patent 6,502,113).

6. As per claim 1,

Burchetta ('551)discloses a platform for supporting negotiation between parties to achieve an outcome, the platform comprising:

A party goal program unit configured for: defining respective party's goal program in respect of said outcome, said goal program comprising at least one objective function, having at least one goal expressed by at least one constraint comprising at least one of a deviation variable, a decision variable and a target value, said deviation variable being usable to form said objective function, ( Column 4, lines 48-67)

for associating each of Said Objective functions with a level of importance, and for assigning each of said goals an importance weighting within its level, and for assigning to deviation variables within each objective function a respective importance weighting, said party goal program unit comprising a party input unit for allowing a party to provide data for a respective goal program, ( Column 4, lines 48-67)

an output unit configured for offering said offer to said respective parties, a response receiver configured for receiving from respective parties either counter offers or

Art Unit: 3685

acceptances, said response receiver being operable to provide counter offers expressed as modified goal programs to said goal program negotiator for further negotiation, said platform advancing to a next level upon an acceptance.(Figure 3, column 7, lines 25-46)

Burchetta ('551) does not explicitly disclose a negotiator associated with said party goal program unit for receiving a goal program of at least one of said respective parties, and carrying out negotiations using said at least one goal program by considering said objective functions levelwise in the respective goal program to approach at said mutually compatible outcome by carrying out minimization at a respective level, therewith to form an offer. Crawford et al. ('113) discloses a negotiator associated with said party goal program unit for receiving a goal program of at least one of said respective parties, and carrying out negotiations using said at least one goal program by considering said objective functions levelwise in the respective goal program to approach at said mutually compatible outcome by carrying out minimization at a respective level, therewith to form an offer (Column 8, lines 14-37). It would be obvious to one having ordinary skill in the art at the time of the invention to combine Burchetta ('551) method with Crawford et al. ('113) 's teaching in order to maximize the efficiency of the negotiations..

7. Claims 60, 81, 92, 100, 123,125, 138, 146, 158, 167, 168, 169, 174, 186, 199, 215, 225, 235, 249, 251, 266, 276, 285, 301 and 337 are not patentably distinct from claim 1 and are rejected for at least the same reasons.

8. As per claim 2,

Burchetta ('551) discloses the platform of claim 1, further comprising a goal program unifier, associated with said party goal program unit for receiving goal programs of respective parties, and carrying out unification of said goal programs to determine whether two goal programs have a common field of interest from which a mutually compatible outcome is derivable. (Column 4, lines 48-67; Figure 3 [Examiner notes that the claim feature is directed towards intended usage of the claimed system.] )

9. As per claim 3,

Burchetta ('551) discloses the platform of claim 1, (Original) The platform of claim 1, wherein said party goal program unit comprises a constraint arrangement unit for arranging goal constraints level wise in a first party's goal program such that conditional weakening from said outcome for a goal in a trade-off involves strengthening of other goals within the same level of said first party.

10. As per claim 4,

Burchetta ('551) discloses the platform of claim 1, wherein said goal program unit comprises a trade-off unit for arranging goals levelwise in a first party's goal program such that goals of a given level are negotiated with goals of a same level of another party. (Column 4, lines 48-67; Figure 3 [Examiner notes that the



claim feature is directed towards intended usage of the claimed system.])

11. As per claim 5,

Burchetta ('551) discloses the platform of claim 1,  
wherein said party goal program unit is operable to place said objective functions in a hierarchy according to the respective associated level of importance, and to express each goal in terms of at least one decision variable and at least one deviation variable.  
(Column 4, lines 48-67; Figure 3 [Examiner notes that the claim feature is directed towards intended usage of the claimed system.]])

12. As per claim 24,

Burchetta ('551) discloses the platform of claim 1,  
wherein said party input unit is operable to request a decision variable interval, and a penalty specification for deviating from a target within said interval, and wherein said unifier is operable to define a working interval as an intersection between respective intervals of two parties. (Column 4, lines 48-67; Figure 3 [Examiner notes that the claim feature is directed towards intended usage of the claimed system.]])

13. As per claim 32,

Burchetta ('551) discloses the platform of claim 1,  
Wherein said party input unit is operable to permit a party to define at least one single dimension interval goal in respect of said outcome, and to associate said goal with a

range of indifference having an upper bound and a lower bound, a first weighting value for deviations below said lower bound, a second weighting value for deviations above said upper bound and a relative importance for said goal, said unifier being operable to use said range of indifference, said weightings and said relative importance to unify said at least one goal with at least one other goal to determine said compatibility. (Column 4, lines 48-67; Figure 3 [Examiner notes that the claim feature is directed towards intended usage of the claimed system.] )

As per claim 34,

14. Burchetta ('551) discloses the platform of claim 1, wherein said party input unit is operable to permit a party to define a two dimensional trade-off goal constraint by entering two two-dimensional points, said party goal program unit being operable to define a trade-off line between said two points. (Column 4, lines 48-67; Figure 3 [Examiner notes that the claim feature is directed towards intended usage of the claimed system.] )

As per claim 45,

15. Burchetta ('551) discloses the platform of claim 1, wherein said party input unit is operable to permit parties to define goals comprising pair wise variable trade-offs having at least two points and a trade-off function defined for distance from a line joining said points, and wherein said party goal program unit is operable to prevent inconsistent trade-offs to be defined within the platform by

preventing said party input unit from accepting~ more than one trade-off from referring, directly or indirectly, to any given pair of decision variables. (Column 4, lines 48-67; Figure 3 [Examiner notes that the claim feature is directed towards intended usage of the claimed system.] )

Claim 48 is in parallel with claim 45 and is rejected for at least the same reasons.

### ***Conclusion***

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN M. WINTER whose telephone number is (571)272-6713. The examiner can normally be reached on M-F 8:30-6, 1st Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Calvin Hewitt can be reached on (571) 272-6709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMW

/Calvin L Hewitt II/  
Supervisory Patent Examiner, Art Unit 3685